



PATENT  
Atty. Docket: 59191.000009  
U.S. Patent Appln. Serial No. 10/676,006

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application Number : 10/676,006 Confirmation No.:  
Applicant : Jørn Borch SØE et al.  
Filed : October 2, 2003  
Title : A METHOD OF IMPROVING PROPERTIES OF A FLOUR  
DOUGH, A FLOUR DOUGH IMPROVING COMPOSITION  
AND IMPROVED FOOD PRODUCTS  
TC/Art Unit :  
Examiner: :  
Docket No. : 59191.000009  
Customer No. : 21967

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully request consideration of the references listed on the attached Form PTO-1449. Copies of these documents are not provided herewith, as this case relies on the benefit of copending U.S. Patent Application Serial No. 09/932,923 under 35 U.S.C. §120, for an earlier priority date and the documents were either submitted in the copending '923 application, or were identified in the copending '923 application as having been cited in the previous application which the copending '923 application claims an earlier filing date under 35 U.S.C. § 120. Accordingly, pursuant to 37 C.F.R. §§1.98 (d)(1)(2) copies of these references are not submitted herewith. However, copies of any of the cited references will be forwarded at the request of the Examiner. Applicants rely on the prior application for an earlier filing date under 35 U.S.C § 120.

Applicants respectfully request that the Examiner consider the references cited on the Form PTO-1449 and that the Examiner indicate that the references have been

considered in this application by returning a copy of the Form PTO-1449 with the Examiner's initials in the left column as per MPEP § 609.

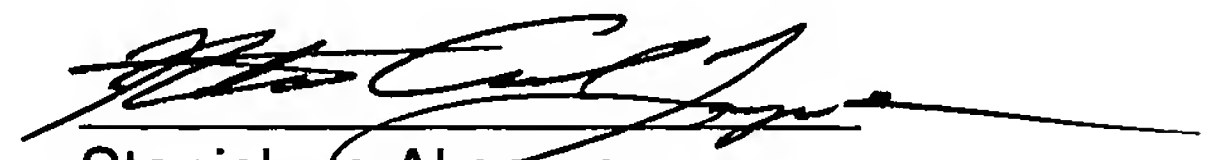
Applicants also wish to bring to the Examiner's attention co-pending U.S. patent applications: U.S. Application Serial Numbers 09/932,923 (which is a Continuation of U.S. Application Serial Number 08/676,186, filed on July 12, 1996, as a national phase of PCT Application PCT/DK96/00239, and issued as U.S. Patent No. 6,358,543); 10/040,394, filed January 9, 2002; 10/150,429, filed May 17, 2002; and 09/824,053, filed April 3, 2001. Applicants submit that the co-pending applications are not material to patentability of any claims in the present case. Nonetheless, Applicants are bringing these applications to the Examiner's attention. Copies of the co-pending patent applications are provided herewith. An indication of consideration of the co-pending applications by the Examiner would be appreciated.

Applicants respectfully note that the submission of the listed references in this Information Disclosure Statement is not an admission that they are prior art or that they are material to patentability of any claims of the application. Also, the submission of this Information Disclosure Statement is not an indication that a search has been made.

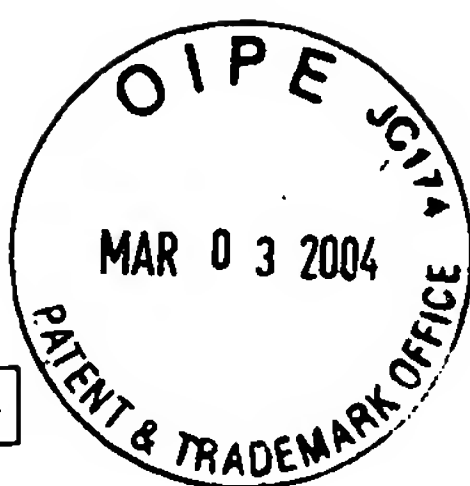
This IDS is submitted prior to the issuance of a first Office Action on the merits; therefore, it is believed that no fees are required in connection therewith. If any fees are necessitated by the filing of this Information Disclosure Statement, please charge the undersigned's Deposit Account No. 50-0206.

Respectfully submitted,  
HUNTON & WILLIAMS

Date: March 3, 2004

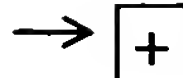
  
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				First Named Inventor	Jørn Borch SØE et al.
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	1	of	10	Attorney Docket Number	59191.000009

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	U1	2,783,150		Luther	02-26-1957	
	U2	3,520,702		Merzi	07-14-1970	
	U3	5,059,430		Bowles	10-22-1991	
	U4	5,094,951		Rosenberg	03-10-1992	
	U5	5,108,765		Maat et al.	04-28-1992	
	U6	5,318,785		DeStefanis	06-07-1994	
	U7	5,451,413		Fok et al.	09-19-1995	
	U8	5,650,188		Gaubert et al.	07-22-1997	
	U9	5,916,607		Mutsaers et al.	06-29-1999	
	U10	6,039,983		Wagner et al.	03-21-2000	
	U11	6,251,626		Stougaard et al.	06-26-2001	
	U12	6,406,723		Søe et al.	06-18-2002	
	U13	10/040,394			filed 01-09-2002	
	U14	10/150,429			filed 05-17-2002	
	U15	09/932,923			filed 08-21-2001	
	U16	09/824,053			filed 04-03-2001	

FOREIGN PATENT DOCUMENTS								
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	F1	JP	73016612			12-1970	Japan, Great Britain (Abstract)	N
	F2	JP	73016612** (Japanese Unexamined Patent Publication No. 48-16612)	abstract		12-1970	Japan (Abstract)	Y
	F3		B1-321-811			06-1989	European Patent specification	N
	F4		B1-338-452			10-1989	European Patent specification	N

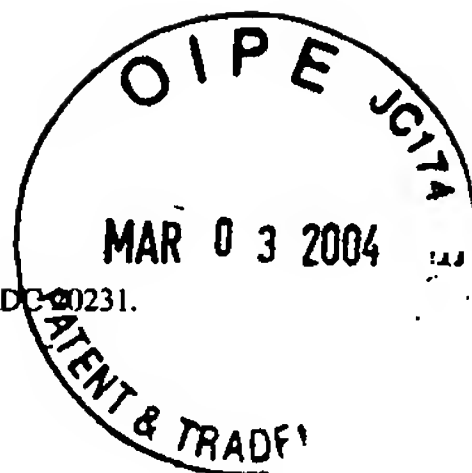
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\*\*NOTE: This reference was inadvertently identified as JP7301661 in the Supplemental IDS of April 26, 2001 in the prior application. Nonetheless, it is clear from the context of that IDS that it was in fact JP73016612. The English translation filed was that of JP73016612.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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	U17	6,358,543		Soe et al	03-19-2002	
	U18					

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	F5		2,102,723			09-1990	Canada	N
	F6	JP	A92084848			03-1992	Japanese Patent Abstract	N
	F7		39,483			Apparent filing date 09-12-1994	Chile	N
	F8	JP	A6296467			1994	Japan (Abstract)	N
	F9	DE	A1050703			03-26-1956	Germany	N
	F10	JP	61085158			04-30-1986	Japan (Abstract)	N
	F11	EP	A0468731			07-22-1991	Europe	N
	F12		858-1991			3-10-1992	Chile (Patent application)	N
	F13	EP	0396 162			01-07-1993	Europe	N
	F14		1376-1992			09-20-1993	Chile	N
	F15		4301904A1			02-1994	Germany, (English abstract and translation of claims)	Y
	F16	JP	1994000010444			10-25-1994	Japan (Abstract)	N

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	U19					
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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	F18	JP	07274807A			10-24-1995	Japan (Abstract)	N
	F19	JP	07274807			10-24-1995	Japan	N
	F20	WO	95129996			11-09-1995	Europe	N
	F21		0 682 116			11-15-1995	Europe	N
	F22		1595-1994			04-01-1996	Chile	N
	F23		875-1994			05-08-1996	Chile	N
	F24		1363-1995			08-07-1996	Chile	N
	F25	JP	03164127			07-16-1999	Japan (Abstract)	N
	F26	JP	04207146A			07-29-1999	Japan (Abstract)	N
	F27	JP	04207145			07-29-1999	Japan (Abstract)	N
	F28		1363-95 (Patent application)			Apparent filing date, 09-07-1994	Chile	N
	F29		2,134,597 (Patent application)			04-30-1995	Canada	N
	F30		875-95 (Patent application)			Apparent filing date, 06-16-1995	Chile	N
	F31		2,151,978			12-18-1995	Canada	
	F32		2,157,718			03-08-1996	Canada	
	F33		2,224,143			12-12-1996	Canada	
	F34	EP	0,010,296		Toshiaki et al.	12-01-1982		
	F35	EP	0,468,731		Nobuyoshi et al.	01-29-1992		
	F36	EP	0,585,988 B1		Van Eljk et al.	09-03-1994		
	F37	GB	2,358,784		Jorn Borch Soe	08-08-2001		
	F38	JP	04-200339 (and English language abstract)		Mikiko, S.	07-21-1992		N

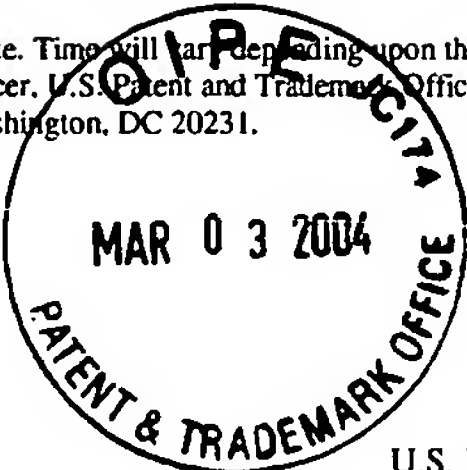
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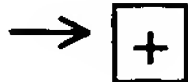
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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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Sheet 4 of 10

Complete if Known

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	U21					
	U22					

FOREIGN PATENT DOCUMENTS

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	F39	JP	06-296467 (and English language abstract)		Masaaki, A.	10-25-1994		N
	F40	WO	94/04035		Olesen et al.	03-03-1994		
	F41	WO	96/39851		Jørn Borch Soe	12-19-1996		
	F42	WO	98/45453		Poulsen et al.	10-15-1998		
	F43	WO	99/31990		Schneider et al.	07-01-1999		
	F44	WO	00/32758		Bojsen et al.	06-08-2000		
	F45	WO	01/39602 A1		Soe	06-07-2001		
	F46	WO	02/00852		Tsutsumi et al.	01-03-2002		
	F47	WO	02/03805		Budolfsen et al.	01-17-2002		
	F48	WO	02/065854		Ross et al.	08-29-2002		
	F49	WO	02/066622		Tsutsumi et al.	08-29-2002		
	F50	JP	61085158 (abstr)					
	F51	JP	1994000010444					
	F52	JP	7 274807					
	F53	JP	7 274807 A					
	F54	JP	03164127					
	F55	JP	04207145					

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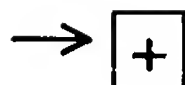
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	F56	JP	04207146 A					
	F57	DE	4301904					

NON-PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
Examiner Initials *	Cite No. <sup>1</sup>	
	F58	Bean and Hassid, 1956, J. Biol. Chem. , 218: 425-436
	F59	Ikawa, 1982, Methods Enzymol., 89: 145-149
	F60	Sullivan et al., 1973, Biochemica et Biophysica Acta, 309:11-22
	F61	Rand, 1972, Journal of Food Science, 37:698-701
	F62	Bak et al., "A Method for Testing the Strengthening Effect of Oxidative Enzymes in Dough", presented at a symposium entitled "Wheat Structure, Biochemistry and Functionality", Reading UK, 10-12 April 1995
	F63	Christiansen, 1993, "Application of Oxidoreductases for Food Preservation" in Progress Report of R&D Projects and Concerted Actions published by the European Communities, Luxembourg, 1993, p. 32-36
	F64	Kerschensteiner, The Mechanism of Action and the State of Copper in Hexose oxidase, Thesis, 1978, p. iii-xiii
	F65	Perella, F.W., Analytical Biochemistry, 174:437-447 (1988)
	F66	AACC Method 36-01A
	F67	"Enzyme Technology in Flour Milling and Baking", <i>Baking Industry Europe</i> (Alan Gordon, editor), S. Haarasilta and T. Pullinen (1993), pp. 49-52
	F68	"Enzyme Nomenclature 1984 (Recommendations of the Nomenclature Committee of the International Union of Biochemistry on the Nomenclature and Classification of Enzyme-Catalysed Reactions)" (1984), pages v, ix, and 50-51
	F69	"Glucose Oxidase: Production, Properties, Present and Potential Applications", <i>Soc. Chem. Ind.</i> (London), (1961), L.A. Underkofler, p. 72-86
	F70	"Methods in Enzymology", <i>Biomass Part B Glucose Oxidase of Phanerochaete chrysosporium</i> , R.L. Kelley and C.A. Reddy (1988), 161, pp. 306-317

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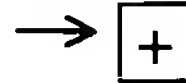
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				Application Number	10/676,006
				Filing Date	October 2, 2003
				First Named Inventor	Jørn Borch SØE et al.
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
				Sheet 6 of 10	Attorney Docket Number

U.S. PATENT DOCUMENTS						
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	F72	"Baking Science & Technology", E.J. Pyler (1982), vol. 1, pp. 314-316
	F73	"Novel Enzyme Combinations A New Tool to Improve Baking Results", <i>Agro-Industry Hi-Tech</i> , S. Haarasilta and T. Pullinen, (May/June 1992), p. 12-13
	F74	"Enzyme Nomenclature (Recommendations of the Nomenclature Committee of the International Union of Biochemistry and Molecular Biology on the Nomenclature and Classification of Enzymes)" (1992), page 56
	F75	"Enzyme Function", Experimental Report from Novo Nordisk, 3/13/97, 2 pages
	F76	<i>J. Chromatog.</i> , Knoll et al., 55 (1971), 425-428
	F77	"DEEO <sup>®</sup> " A glucose oxidase and catalase enzyme system product sheet from Miles laboratories- Enzymes from Miles (technical Information) (1976), 5 pages
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	F81	"Technology of Cereals (with special reference to wheat)", 2 <sup>nd</sup> Ed., Pergamon Press Ltd. N. L. Kent, (1975), pp. iv-v, 48-49, and 72-73
	F82	"Gluzyme <sup>™</sup> " product sheet from Novo Nordisk Enzyme Process Division, January 1994, 2 pages
	F83	Derwent Publications Ltd., London, GB; class D13, AN 73-30288u XP002012361 & JP, A48016612 (EISAI CO. LTD.)
	F84	Clare <i>et al.</i> , 1991, <i>Bio/Technology</i> 9:455-460 [3]
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	F92	Groppe, J.C. and Morse, D.E., 1993, Isolation of full-length RNA templates for reverse transcription from tissues rich in RNase and proteoglycans, <i>Anal. Biochem.</i> , 210:337-343
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	F100	PCT International Search Report for PCT/DK96/00238, issued 04/11/96
	F101	International Search Report from the International Searching Authority in PCT/DK96/00239 issued 9/11/96
	F102	The Examiner's Report on Application for Patent of Invention (Chilean Application No. 939-96) and English translation thereof
	F103	Dowling <i>et al.</i> , "Hexose Oxidation by an enzyme system of <i>Malleomyces Pseudomallei</i> ", <i>Journal of Bacteriology</i> (1956) 72: 555-560
	F104	Bean <i>et al.</i> , "Carbohydrate Metabolism of Citrus Fruits", <i>Journal of Biological Chemistry</i> (1961) 236: 1235-1240
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	F106	AACC Method 54-10
	F107	Ellman, George L.: "A Colorimetric Method for Determining Low Concentrations of Mercaptans", <i>Archives of Biochemistry and Biophysics</i> (1958) 74: 443-450
	F108	U. S. Patent Application No. 09/824,053, filed on July 12, 1996, entitled "Recombinant Hexose Oxidase, A Method of Producing Same And Use of Such Enzyme," Inventor(s): Peter Stougaard <i>et al.</i>

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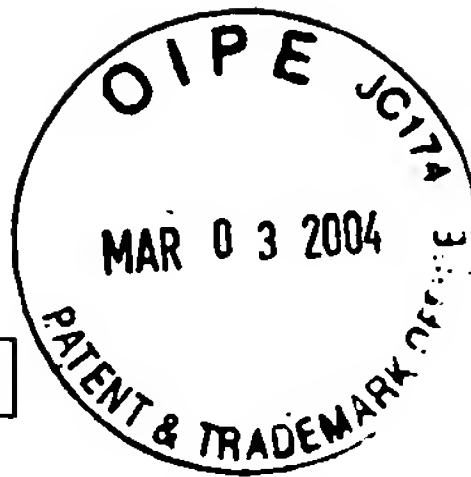
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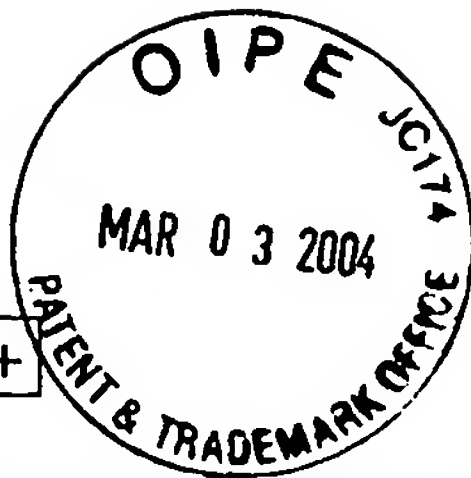
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	5.	Kerschensteiner, D. D. Diss. Abstr. Int. B 1978, 39(7), 3299, CAN 90: 117113 AN 1978:117113 CAPLUS, "The mechanism of action and the state of copper in hexose oxidase"						

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